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THE LENOVO® THINKSERVER® TS430

A HIGHLY AFFORDABLE, FEATURE-RICH SERVER

- INCREDIBLE PERFORMANCE WITH LATEST INTEL® XEON E3-1200 TECHNOLOGY -- UP TO 30% FASTER VS. PREVIOUS GENERATION
- HIGHLY RELIABLE WITH POWERFUL SAS RAID AND REDUNDANT POWER SUPPLY CHOICES
- OUTSTANDING MANAGEABILITY WITH THE THINKSERVER MANAGEMENT MODULE WITH OPTIONAL IKVM.
- ENORMOUS ROOM TO GROW WITH UP TO 16TB (SATA) OR 4.8TB (SAS) STORAGE CAPACITY WITH UP TO 8 HOT SWAP DRIVES
- ENTERPRISE-TOUGH DESIGN, WHISPER-QUIET AND ENERGY EFFICIENT PERFORMANCE THAT'S IDEAL FOR DEMANDING RETAIL OR FRONT OFFICE DEPLOYMENTS
- OUTSTANDING MANAGEABILITY AND SCALABILITY TO PROVIDE UNBEATABLE VALUE FOR BUSINESSES LARGE OR SMALL

The ThinkServer TS430 combines latest Intel® Xeon performance, legendary Think quality and powerful manageability tools to deliver a feature-rich, scalable and highly reliable server solution for Managed Solution Providers (MSPs), branch offices and small businesses.

Combining sophisticated SAS RAID, up to 8 hot swap drives and redundant power choices, the TS430 offers small businesses a scalable tower solution with plenty of room to grow. Its powerful IPMI 2.0-compliant ThinkServer Management Module with available iKVM allows MSPs to remotely and cost effectively manage end user environments.

An expansive options and services portfolio make it easy to customize the perfect TS430 for your needs. Choose from an extensive array of hard drive choices, memory, RDX solutions and RAID protection – all ThinkServer-tested and proven. TS430 offers feature-rich performance in an Energy Star-certified, whisper-quiet compact tower chassis -- perfect for retail or back office applications.

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AN INCREDIBLE, SOPHISTICATED PERFORMER

The ThinkServer TS430 combines the performance you demand with highly affordable choices and plentiful channel inventory.

- **Up to 30% faster** performance than the previous generation of Intel Xeon processors. With Turbo Boost 2.0, you get extra processing speed when applications demand it.
- **Save on power consumption** with the new 80 watt Intel® Xeon® processors, without compromising on performance.
- **Lightning-fast data speeds** with enterprise-tough SAS or SATA choices, and powerful SAS RAID 0/1/5/10 data protection.
- **A complete solution** portfolio of ThinkServer tested and proven options and storage choices from trusted partners like TrippLite, Tandberg and many more.

INDUSTRY-LEADING GREEN ATTRIBUTES

The ThinkServer TS430 combines enterprise-grade stability and performance with extensive green features.

- **Whisper-quiet noise levels,** making it easy to deploy the TS430 without a dedicated server room. Use the TS430 in retail deployments, front office, or back office applications, without disrupting the work environment.
- **Extensive energy efficiency certifications and ratings,** with RoHS and Climate Savers certifications, along with Energy Star 1.0 for servers.
- **Substantial recycled materials used in design,** with a significant percentage from post-consumer recycled content.

AN INTELLIGENT, RELIABLE SOLUTION

The ThinkServer TS430 is built to meet your demanding 24x7 application needs, with energy efficient performance and unmatched value.

- **Redundant, high efficiency Power Supplies** let you work without having to worry about system failures because of power loss.
- **Stable, powerful performance** with up to 8 hot-swap SAS or SATA Hard Drives, durable ECC memory, and blazing fast SAS RAID performance and protection supporting 0, 1, 5, and 10 configurations.
- **Extraordinary remote manageability** features the ThinkServer Management Module that's IPMI 2.0-compliant and loaded with manageability tools to remotely manage your TS430.

CUSTOMER SCENARIOS

I] The Server Solution for Managed Service Providers (MSPs)

The ThinkServer TS430 delivers world-class Think quality and outstanding reliability, allowing MSPs to extend their service offerings effortlessly to servers.

Out-of-band management has never been easier or more effective with the ThinkServer Management module – a powerful BMC solution that's IPMI 2.0-compliant and loaded with remote manageability features.

The TS430 offers huge capacity and blazing-fast SAS RAID and data protection – perfect for MSPs entrusted with their customer's data and network management.

The TS430 is designed for 24x7 operation and unwavering reliability. The enterprise-tough chassis offers SAS or SATA hot swap drives, and durable ECC memory, for outstanding data integrity and peace of mind.

II] The Server Solution for Small and Medium Businesses

Small businesses need the server-class capabilities that large enterprises enjoy, but without the high costs of acquisition and exorbitant operational costs.

The ThinkServer TS430 offers server-class hardware designed specifically for 24x7 operation and rich manageability yet remains highly affordable.. Remote IT management has been made easier as well, with the ability to remotely control, power on/off, and monitor the server.

Energy Star compliance on the TS430 saves you up to 30% in energy costs, compared to previous generation servers. With its whisper-quiet operation, the TS430 is an ideal fit for retail or front office deployments – without need for a dedicated server room!

III] The Server Solution for Corporate Branch Offices

For corporate branch offices with limited IT staff, the ThinkServer TS430 helps make work simpler. Easy Startup allows for rapid deployment, while ability to self-monitor health with automated issue alerts streamlines work of the central IT department. With remote monitoring and troubleshooting capabilities, the TS430 keeps branch office functioning at peak levels.

Customize your TS430 with enormous SAS or SATA storage and powerful SAS RAID solutions when you demand critical data protection. Combining Xeon performance with highly affordable prices, the TS430 is a powerful, dependable, economical solution – the perfect fit for your business.

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SERVICES AND WARRANTY UPGRADES

Microsoft Software Options choices

Complete your ThinkServer solution with tested, proven server OS solutions from Microsoft.
Microsoft Windows Small Business Server 2011 to be available June 2011.

Software Options - ROK Kits	P/N
Microsoft Windows Server 2008 R2 Enterprise Edition. Includes 25 CALs Multilanguage Eng/Fr/Ger/Ita/Spa	84978PE
Microsoft Windows Server 2008 R2 Enterprise Edition. Includes 25 CALs Multilanguage Eng/Jap	84978PA
Microsoft Windows Server 2008 R2 Enterprise Edition. Includes 25 CALs English	84978LE
Microsoft Windows Server 2008 R2 Enterprise Edition. Includes 25 CALs German	84978LG
Microsoft Windows Server 2008 R2 Standard Edition. Includes 5 CALs Multilanguage Eng/Fr/Ger/Ita/Spa	84978OE

Software Options - ROK Kits	P/N
Microsoft Windows Server 2008 R2 Standard Edition 5. IncludesCALs Multilanguage Eng/Jap	84978OA
Microsoft Windows Server 2008 R2 Standard Edition 5. Includes CALs English	84978KE
Microsoft Windows Server 2008 R2 Standard Edition 5. IncludesCALs German	84978KG
Windows Server® 2008 R2 Foundation Edition. Includes 15 CALs Multilanguage Eng/Fr/Ger/Ita/Spa	84978HA
Windows Server® 2008 R2 Foundation Edition. Includes 15 CALs Multilanguage Eng/Jap	84978HE

ThinkServer Services and Warranty Upgrades

Lenovo Services let you get the most out of your ThinkServer – no matter how you use it. Whether you have a thousand client seats or just one, Lenovo delivers the quality, reliability and peace of mind to get you and keep you up and running, no matter where you are, no matter when you need.

Training classes

› The basics on components, diagnostics, troubleshooting, and managing Lenovo servers, delivered in interactive online format

Online Training, Understanding Lenovo Servers ------- 40Y9105
Online Training, Understanding Systems Management -40Y9717
Installation, ThinkServer Hardware Only ----------40Y9107

ThinkPlus service upgrade options

› LOR = Lenovo Onsite Repair

TS430 with 1-year warranty

3-year LOR 9x5 Next Business Day ---------- 40Y9080
5-year LOR 9x5 Next Business Day ---------- 80Y5734

TS430 with 3-year warranty

5-year LOR 9x5 Next Business Day ---------- 80Y5742

ThinkPlus Priority Support

› 9x5 Next Business Day response Lenovo Onsite Repair
› 24x7 support with priority routing and advanced level technicians

TS430 with 3-year warranty

3-year Priority Support ---------- 40Y9082

ThinkPlus Priority Support with Hard Disk Drive Retention

› 9x5 Next Business Day response Lenovo Onsite Repair
› 24x7 support with priority routing and advanced level technicians
› Hard Disk Drive Retention (HDDR) means customer keeps disk

TS430 with 3-year warranty

3-year Priority Support with HDDR ---------- 40Y9683

ThinkPlus Productivity

› Priority Support
› Online Training, Understanding Lenovo Servers
› One-time hardware installation

3-year ThinkPlus Productivity, TS430 (3-year) ------- 40Y9111

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OPTIONS AND ACCESSORIES

ThinkServer DDR3-1333 MHz Memory

High performance ThinkServer ECC memory takes full advantage of Intel's technology while delivering true server-class 99.94% reliability.

P/N	
67Y2606	ThinkServer 2GB DDR3-1333MHz (1RX8 ECC UDIMM)
67Y2607	ThinkServer 4GB DDR3-1333MHz (2RX8 ECC UDIMM)

ThinkServer Tower-to-Rack Shelf Conversion Kit (67Y2641)

- Consolidate your server hardware into your rack – including your TS430
- Durable, thoughtful design make servicing easy
- Includes cable arm, for efficient, trouble-free cable management

ThinkServer Managment Module Premium (67Y2624)

- Embedded Web Server
- Soft Keyboard via KVM
- Email Alert
- Remote KVM
- Virtual Media Redirection
- Dedicated Network Interface Card
- Security: SSL, SSH, KVM Encryption, authentication using LDAP or RADIUS

ThinkServer RAID 100 Upgrade Key for Advanced RAID

The RAID 100 Upgrade Key provides an option to upgrade the TS430 server from basic onboard board RAID to advanced software RAID 5 for increased data reliability

SATA Hard Drive Choices

Combining robust performance with rock solid engineering, ThinkServer Enterprise SATA Hot Swap Hard Drives are ideal for storage, backups and archival applications

ThinkServer 7.2K 3.5 Enterprise SATA Hard Drive

HOT SWAP:	DIRECT CABLED:
67Y2608: 250GB	67Y2612: 250GB
67Y2609: 500GB	67Y2613: 500GB
67Y2610: 1TB	67Y2614: 1TB
67Y2611: 2TB	67Y2615: 2TB

SAS Hard Drive Choices

ThinkServer Enterprise SAS hot swap drives are designed to deliver outstanding performance, superior data protection and unmatched value.

ThinkServer 15K SAS 6Gbps Hot Swap Hard Drive

THINKSERVER 3.5"	THINKSERVER 2.5"
67Y2616: 300GB	67Y2619: 300GB
67Y2617: 450GB	67Y2620: 450GB
67Y2618: 600GB	67Y2621: 600GB

Lenovo RDX Storage Internal Bundle

RDX is the most cost-effective backup solution available for the SMB segment because it leverages unique, server-centric, data de-duplication software that effectively increases backup storage capacity by 20 times.

P/N	
67Y1394	160 GB
67Y1396	320 GB
67Y1398	500 GB

ThinkServer 450W Hot Swap Redundant Power Supply (67Y2625)

- Enjoy peace of mind and high availability in the event of a single power supply failure
- Powerful yet energy efficient performance
- Simple, easy installation and service

ThinkServer RAID 500 Adapter (0A89406)

ThinkServer RAID 500 offers small to medium sized businesses the latest RAID technology at affordable prices with low power consumption.

- Low cost, green SATA/SAS RAID solution
- RAID levels 0, 1, 10
- 6GB/s per port data transfer rates provide blazing fast performance
- Selectable logical drive as boot drive
- Automatic rebuild of hot spare drives
- Auto resume during array build
- Online Capacity Expansion
- Online RAID Level Migration
- SafeStore Encryption Services
- SMART support

ThinkServer RAID 500 Upgrade Key for Advanced RAID (0A89407)

- Low cost, green SATA/SAS RAID solution
- RAID levels 5
- 6Gb/s per port data transfer rates provides blazing-fast performance

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SPECIFICATIONS

OPERATING SYSTEM SUPPORT

Windows Server 2008 R2
(Foundations, Standard Edition)
Windows Small Business Server 2011
(Essentials, Standard, Premium Add-On),
SLES 11.1, RedHat 6.0
VMWare ESX/ESXi 4.0, 4.1

PROCESSOR

Intel® Xeon® E3-1280 (4 cores, 8MB cache, 3.6GHz, 95W)
Intel® Xeon® E3-1270 (4 cores, 8MB cache, 3.4GHz, 80W)
Intel® Xeon® E3-1240 (4 cores, 8MB cache, 3.3GHz, 80W)
Intel® Xeon® E3-1230 (4 cores, 8MB cache, 3.2GHz, 80W)
Intel® Xeon® E3-1220 (4 cores, 8MB cache, 3.1GHz, 80W)
Intel® Core™ i3-2120 (2 cores, 3MB cache, 3.3GHz, 65W)
Intel® Core™ i3-2100 (2 cores, 3MB cache, 3.1GHz, 65W)
Intel® Core™ G850 (2 cores, 3MB cache, 2.9GHz, 65W)
Intel® Core™ G840 (2 cores, 3MB cache, 2.8GHz, 65W)
Intel® Core™ G620 (2 cores, 3MB cache, 2.6GHz, 65W)

PACKAGING

5U / 50L Tower

MEMORY

4 DIMM sockets – up to 32GB*
(Supports UDIMMs DDR3 1333 MR/s ECC)

WEIGHT

25kg (maximum)

DIMENSIONS

195mm x 430mm x 595mm
(7.67" x 16.92" x 23.42")

STORAGE

4x 3.5" HDD Bays
(up to 4.0TB internal SATA storage)
4x or 8x 3.5" HS HDD Bays (up to 16.0TB internal SATA or 4.8TB internal SAS storage)
8x 2.5" HS HDD Bays (up to 4.8TB internal SAS storage)

STORAGE CONTROLLER

Onboard PCH Controller with:
• 6x 3Gb/s SATA II ports
• Integrated SATA SW RAID 0/1
Optional SATA SW RAID 5 Upgrade
* Optional RAID 500 Adapter for hardware-based SAS 0/1/10 protection
*Optional RAID 500 upgrade key to enhance your RAID 500 adapter with RAID 5 protection

I/O EXPANSION SLOTS

One PCIe x8 Gen2 HH/FL (x16 mech)
One PCIe x8 Gen2 HH/HL (x8 mech)
One PCIe x4 Gen2 HH/HL (x8 mech)
One 5V 32-bit/33 MHz PCI

I/O CONNECTORS

Two 1 Gb/s Ethernet ports
(one shared with IMM)
USB 2.0 ports – 4 rear, 2 front, 1 internal
(2x5 pin header for optional RDX tape)
Serial port (one rear) Video (one rear)

MANAGEABILITY/RAS/SERVICE

IMM on shared Ethernet port
Optional remote management / KVM with the ThinkServer Management Module
IPMI 2.0 / SOL, TPM (Supports TCG 1.2)
Diagnostic LED's on Motherboard, uEFI BIOS

MEDIA

Two 5.25" External bays
Optional RDX tape backup

POWER

Fixed Power Supply – 405W (85% efficiency)
Optional Redundant Power supply – 420W
Energy Star Server 1.0 compliant

* 16GB maximum memory supported at announcement.
32GB supported in October 2011 refresh.

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Notes: *AMT 7.0 available on select models. **Compared to older generation single socket tower servers. ThinkServer models shown include optional Lenovo RDX Internal USB backup (sold separately).

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